Record and analyze plethysmography data from a variety of body locations. Record pulse rate from the fingers, ears or toes for heart rate calculation or pulse transit time studies. Look at variations in appendage size or blood volume changes to regions of the body to examine venous capacitance, outflow, and compliance measures. For indirect approximation of blood pressure changes, record the pulse signal while occluding and releasing the brachial artery. Automated routines are available for cycle/peak detection and rate calculation to measure the area under the pulse waveform for an indication of blood volume.

Applications

- Online rate calculation
- Pulse transit time (PTT)
- Pulse wave velocity (PWW)
- Blood volume measurements (BVP)
- And many more!

Watch Plethysmography Video Tutorials at the BIOPAC Website!

Selected Research Citations Below

Search online for more than 1,860 BIOPAC citations for Plethysmography

Disgust versus Lust: Exploring the Interactions of Disgust and Fear with Sexual Arousal in Women


Hypercapnia-Induced and Stimulus-Induced Changes in Cerebral Blood Volume (CBV) in Human at 7T


Non-invasive techniques for respiratory information extraction based on pulse photoplethysmogram and electrocardiogram


Toward a Smartphone Application for Estimation of Pulse Transit Time


Women's Sex-Related Dissociation: The Effects of Alcohol Intoxication, Instructions to Control Sexual Arousal, and History of Sexual Abuse


Vital Signs Monitoring using a New Flexible Polymer Integrated PPG Sensor


PPG Profile Investigations for Different Fingers in a Subject


Automatic Feature Extraction in Acceleration Plethysmography


Facets of Clinicians’ Anxiety and the Delivery of Cognitive Behavioral Therapy


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